Claims

[c1] A gas cooking appliance, comprising:
at least one gas cooking element; and
a gas lockout valve assembly in line with said at least one gas cooking element, said gas lockout valve assembly comprising a valve and a motor configured to open or close the valve.

[c2] A gas cooking appliance in accordance with Claim 1 further comprising a rotatable cam adapted to indicate a position of said valve.

[c3] A gas cooking appliance in accordance with Claim 2 further comprising at least one microswitch in communication with said cam.

[c4] A gas cooking appliance in accordance with Claim 3 further comprising a controller coupled to said motor.

[c5] A gas cooking appliance in accordance with Claim 4 wherein said controller comprises a microprocessor.

[c6] A gas cooking appliance in accordance with Claim 1 wherein said at least one gas cooking element comprises a plurality of gas cooking elements, said appliance further comprising a gas manifold connected between said gas lockout valve assembly and said plurality of gas cooking elements.

[c7] A gas fired cooktop comprising:
at least one gas burner;
at least one control knob associated with said at least one burner; and
a motorized gas lockout valve coupled to said at least one gas burner and establishing a gas supply connection thereto, said valve positionable in a gas lockout position, thereby rendering said control knob ineffective to operate said burner.

[c8] A gas fired cooktop in accordance with Claim 7 wherein said motorized gas lockout valve comprises:
a valve;
a motor coupled to and in driving relation to said valve, said motor opening and

closing a flow path through said valve; and

a cam coupled to said valve and indicating a state of said valve.

[c9] A gas fired cooktop in accordance with Claim 8 further comprising a switch indicating a position of said cam.

[c10] A gas fired cooktop in accordance with Claim 9 further comprising a microprocessor coupled to said switch, said microprocessor configured to indicate a state of said switch to a user based upon a position of said cam.

[c11] A gas cooktop in accordance with Claim 7 further comprising a gas manifold coupled between said at least one said burner and said gas lockout valve.

[c12] A gas range comprising:

a cabinet;

a plurality of gas heating elements coupled to said cabinet;

a gas manifold within said cabinet and configured to distribute gas to each of said heating elements; and

a motorized gas lockout assembly coupled in line with said gas manifold, said motorized gas lockout assembly positionable to permit or deny gas flow to said gas manifold.

[c13] A gas range in accordance with Claim 12 further comprising a microprocessor coupled to said motorized lockout valve assembly, said microprocessor configured to sense a position of said valve assembly.

[c14] A gas range in accordance with Claim 13 further comprising a display configured to indicate a state of said valve assembly.

[c15] A gas range in accordance with Claim 13 further comprising a switch coupled to said microprocessor, said switch actuated by said valve assembly as said valve assembly is positioned.

[c16] A gas range in accordance with Claim 15, said gas lockout valve comprising a cam configured to actuate said switch.

[c17] A gas range in accordance with Claim 12, said motorized gas lockout valve

assembly comprising a single digit rpm motor.

[c18] A gas range in accordance with Claim 12, said valve comprising a plug valve.

[c19] A gas range comprising:

a cabinet;

a plurality of gas heating elements coupled to said cabinet;

a gas manifold within said cabinet and configured to distribute gas to each of said heating elements; and

a gas lockout assembly coupled in line with said gas manifold, said gas lockout assembly comprising:

a valve;

a motor coupled to and in driving relation to said valve, said motor opening and closing a flow path through said valve to permit or prevent gas flow to said gas manifold; and

a cam coupled to said valve and indicating a position of said valve.

[c20] A gas range in accordance with Claim 19 wherein said valve is a plug valve.